

PCT09

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/980,804

DATE: 12/21/2001

TIME: 12:53:03

Input Set : A:\WST91seqlist.txt

Output Set: N:\CRF3\12212001\I980804.raw

**ENTERED**

4 <110> APPLICANT: Otvos Jr., Laszlo  
 6 <120> TITLE OF INVENTION: Novel Pyrrhocoricin-Derived Peptides, and Methods of  
 7 Use Thereof  
 9 <130> FILE REFERENCE: WST91BUSA  
 C--> 11 <140> CURRENT APPLICATION NUMBER: US/09/980,804  
 C--> 12 <141> CURRENT FILING DATE: 2001-12-03  
 14 <150> PRIOR APPLICATION NUMBER: 60/140,606  
 15 <151> PRIOR FILING DATE: 1999-06-23  
 17 <150> PRIOR APPLICATION NUMBER: 60/154,135  
 18 <151> PRIOR FILING DATE: 1999-09-15  
 20 <160> NUMBER OF SEQ ID NOS: 30  
 22 <170> SOFTWARE: PatentIn Ver. 2.1  
 24 <210> SEQ ID NO: 1  
 25 <211> LENGTH: 18  
 26 <212> TYPE: PRT  
 27 <213> ORGANISM: Artificial Sequence  
 29 <220> FEATURE:  
 30 <221> NAME/KEY: MOD\_RES  
 31 <222> LOCATION: (1)  
 32 <223> OTHER INFORMATION: Asp in position 1 is attached to one or more  
 33 modified amino acids or to a chemical group  
 35 <220> FEATURE:  
 36 <221> NAME/KEY: MOD\_RES  
 37 <222> LOCATION: (4)  
 38 <223> OTHER INFORMATION: Xaa can be Ser or any amino acid  
 40 <220> FEATURE:  
 41 <221> NAME/KEY: MOD\_RES  
 42 <222> LOCATION: (5)  
 43 <223> OTHER INFORMATION: Xaa can be Tyr or any amino acid  
 45 <220> FEATURE:  
 46 <221> NAME/KEY: MOD\_RES  
 47 <222> LOCATION: (17)  
 48 <223> OTHER INFORMATION: Xaa can be Asn or any amino acid  
 50 <220> FEATURE:  
 51 <221> NAME/KEY: MOD\_RES  
 52 <222> LOCATION: (18)  
 53 <223> OTHER INFORMATION: Xaa can be Arg or any amino acid and is attached to one or  
 54 more modified amino acids or to a chemical group  
 58 <220> FEATURE:  
 59 <223> OTHER INFORMATION: modification of Pyrrhocoricin  
 61 <400> SEQUENCE: 1 /  
 W--> 62 Asp Lys Gly Xaa Xaa Leu Pro Arg Pro Thr Pro Pro Arg Pro Ile Tyr  
 63 1 5 10 15  
 W--> 65 Xaa Xaa  
 68 <210> SEQ ID NO: 2  
 69 <211> LENGTH: 20  
 70 <212> TYPE: PRT

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71 <213> ORGANISM: Pyrrhocoricin
73 <220> FEATURE:
74 <221> NAME/KEY: MOD_RES
75 <222> LOCATION: (11)
76 <223> OTHER INFORMATION: Thr in position 11 is modified with Gal-GalNAC
78 <400> SEQUENCE: 2
79 Val Asp Lys Gly Ser Tyr Leu Pro Arg Pro Thr Pro Pro Arg Pro Ile
80   1           5           10           15
82 Tyr Asn Arg Asn
83           20
86 <210> SEQ ID NO: 3
87 <211> LENGTH: 10
88 <212> TYPE: PRT
89 <213> ORGANISM: Artificial Sequence
91 <220> FEATURE:
92 <223> OTHER INFORMATION: modification of Pyrrhocoricin
94 <400> SEQUENCE: 3
95 Arg Pro Pro Thr Pro Arg Pro Leu Lys Val
96   1           5           10
99 <210> SEQ ID NO: 4
100 <211> LENGTH: 18
101 <212> TYPE: PRT
102 <213> ORGANISM: Artificial Sequence
104 <220> FEATURE:
105 <221> NAME/KEY: MOD_RES
106 <222> LOCATION: (1)
107 <223> OTHER INFORMATION: Asp in position 1 is modified by a
108     1-aminocyclo-hexane carboxylic acid
110 <220> FEATURE:
111 <221> NAME/KEY: MOD_RES
112 <222> LOCATION: (18)
113 <223> OTHER INFORMATION: Arg in position 18 is modified by an amino linker
114     moiety
116 <220> FEATURE:
117 <223> OTHER INFORMATION: modification of Pyrrhocoricin
119 <400> SEQUENCE: 4
120 Asp Lys Gly Ser Tyr Leu Pro Arg Pro Thr Pro Pro Arg Pro Ile Tyr
121   1           5           10           15
123 Asn Arg
126 <210> SEQ ID NO: 5
127 <211> LENGTH: 5
128 <212> TYPE: PRT
129 <213> ORGANISM: Artificial Sequence
131 <220> FEATURE:
132 <223> OTHER INFORMATION: modification of Pyrrhocoricin
134 <400> SEQUENCE: 5
135 Lys Val Asp Lys Val
136   1           5
139 <210> SEQ ID NO: 6

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140 <211> LENGTH: 20  
141 <212> TYPE: PRT  
142 <213> ORGANISM: Artificial Sequence  
144 <220> FEATURE:  
145 <223> OTHER INFORMATION: modification of Pyrrhocoricin  
147 <400> SEQUENCE: 6  
148 Val Asp Lys Gly Ser Tyr Leu Pro Arg Pro Thr Pro Pro Arg Pro Ile  
149 1 5 10 15  
151 Tyr Asn Arg Asn  
152 20  
154 <210> SEQ ID NO: 7  
155 <211> LENGTH: 24  
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157 <213> ORGANISM: Artificial Sequence  
159 <220> FEATURE:  
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161 <222> LOCATION: (1)  
162 <223> OTHER INFORMATION: ACETYLATION  
164 <220> FEATURE:  
165 <223> OTHER INFORMATION: modification of Pyrrhocoricin  
167 <400> SEQUENCE: 7  
168 Lys Val Asp Lys Val Asp Lys Gly Ser Tyr Leu Pro Arg Pro Thr Pro  
169 1 5 10 15  
171 Pro Arg Pro Ile Tyr Asn Arg Asn  
172 20  
174 <210> SEQ ID NO: 8  
175 <211> LENGTH: 21  
176 <212> TYPE: PRT  
177 <213> ORGANISM: Artificial Sequence  
179 <220> FEATURE:  
180 <221> NAME/KEY: MOD\_RES  
181 <222> LOCATION: (1)  
182 <223> OTHER INFORMATION: ACETYLATION  
184 <220> FEATURE:  
185 <223> OTHER INFORMATION: modification of Pyrrhocoricin  
187 <400> SEQUENCE: 8  
188 Arg Val Asp Lys Gly Ser Tyr Leu Pro Arg Pro Thr Pro Pro Arg Pro  
189 1 5 10 15  
191 Ile Tyr Asn Arg Asn  
192 20  
195 <210> SEQ ID NO: 9  
196 <211> LENGTH: 21  
197 <212> TYPE: PRT  
198 <213> ORGANISM: Artificial Sequence  
200 <220> FEATURE:  
201 <221> NAME/KEY: MOD\_RES  
202 <222> LOCATION: (1)  
203 <223> OTHER INFORMATION: ACETYLATION  
205 <220> FEATURE:

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206 <223> OTHER INFORMATION: modification of Pyrrhocoricin  
 208 <400> SEQUENCE: 9  
 209 Lys Val Asp Lys Gly Ser Tyr Leu Pro Arg Pro Thr Pro Pro Arg Pro  
 210 1 5 10 15  
 212 Ile Tyr Asn Arg Asn  
 213 20  
 216 <210> SEQ ID NO: 10  
 217 <211> LENGTH: 19  
 218 <212> TYPE: PRT  
 219 <213> ORGANISM: Artificial Sequence  
 221 <220> FEATURE:  
 222 <221> NAME/KEY: MOD\_RES  
 223 <222> LOCATION: (1)  
 224 <223> OTHER INFORMATION: Asp in position 1 is modified by a  
 225 1-aminocyclo-hexane carboxylic acid  
 227 <220> FEATURE:  
 228 <223> OTHER INFORMATION: modification of Pyrrhocoricin  
 232 <400> SEQUENCE: 10  
 233 Asp Lys Gly Ser Tyr Leu Pro Arg Pro Thr Pro Pro Arg Pro Ile Tyr  
 234 1 5 10 15  
 236 Asn Arg Asn  
 239 <210> SEQ ID NO: 11  
 240 <211> LENGTH: 20  
 241 <212> TYPE: PRT  
 242 <213> ORGANISM: Artificial Sequence  
 244 <220> FEATURE:  
 245 <221> NAME/KEY: MOD\_RES  
 246 <222> LOCATION: (1)  
 247 <223> OTHER INFORMATION: ACETYLATION  
 249 <220> FEATURE:  
 250 <221> NAME/KEY: MOD\_RES  
 251 <222> LOCATION: (11)  
 252 <223> OTHER INFORMATION: Thr in position 11 is modified with Gal-GalNAc  
 254 <220> FEATURE:  
 255 <223> OTHER INFORMATION: modification of Pyrrhocoricin  
 257 <400> SEQUENCE: 11  
 258 Val Asp Lys Gly Ser Tyr Leu Pro Arg Pro Thr Pro Pro Arg Pro Ile  
 259 1 5 10 15  
 261 Tyr Asn Arg Asn  
 262 20  
 264 <210> SEQ ID NO: 12  
 265 <211> LENGTH: 20  
 266 <212> TYPE: PRT  
 267 <213> ORGANISM: Artificial Sequence  
 269 <220> FEATURE:  
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 271 <222> LOCATION: (1)  
 272 <223> OTHER INFORMATION: ACETYLATION  
 274 <220> FEATURE:

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275 <221> NAME/KEY: MOD_RES
276 <222> LOCATION: (20)
277 <223> OTHER INFORMATION: Arg in position 20 is modified by an imide group
279 <220> FEATURE:
280 <223> OTHER INFORMATION: modification of Pyrrhocoricin
282 <400> SEQUENCE: 12
283 Lys Val Asp Lys Gly Ser Tyr Leu Pro Arg Pro Thr Pro Pro Arg Pro
284   1           5           10           15
286 Ile Tyr Asn Arg
287           20
290 <210> SEQ ID NO: 13
291 <211> LENGTH: 20
292 <212> TYPE: PRT
293 <213> ORGANISM: Artificial Sequence
295 <220> FEATURE:
296 <221> NAME/KEY: MOD_RES
297 <222> LOCATION: (1)
298 <223> OTHER INFORMATION: ACETYLATION
300 <220> FEATURE:
301 <221> NAME/KEY: MOD_RES
302 <222> LOCATION: (20)
303 <223> OTHER INFORMATION: Arg in position 20 is modified by a
304     beta-acetyl-2,3-diamino propionic acid group
306 <220> FEATURE:
307 <223> OTHER INFORMATION: modification of Pyrrhocoricin
309 <400> SEQUENCE: 13
310 Lys Val Asp Lys Gly Ser Tyr Leu Pro Arg Pro Thr Pro Pro Arg Pro
311   1           5           10           15
313 Ile Tyr Asn Arg
314           20
317 <210> SEQ ID NO: 14
318 <211> LENGTH: 21
319 <212> TYPE: PRT
320 <213> ORGANISM: Artificial Sequence
322 <220> FEATURE:
323 <221> NAME/KEY: MOD_RES
324 <222> LOCATION: (1)
325 <223> OTHER INFORMATION: ACETYLATION
327 <220> FEATURE:
328 <221> NAME/KEY: MOD_RES
329 <222> LOCATION: (21)
330 <223> OTHER INFORMATION: Asn in position 21 is modified by a
331     2-acetamido-2-deoxyglucose group
333 <220> FEATURE:
334 <223> OTHER INFORMATION: modification of Pyrrhocoricin
336 <400> SEQUENCE: 14
337 Lys Val Asp Lys Gly Ser Tyr Leu Pro Arg Pro Thr Pro Pro Arg Pro
338   1           5           10           15
340 Ile Tyr Asn Arg Asn

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## VERIFICATION SUMMARY

PATENT APPLICATION: US/09/980,804

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Input Set : A:\WST91seqlist.txt

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L:11 M:270 C: Current Application Number differs, Replaced Application Number  
L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:62 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1  
L:65 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1